

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Pueraria montana*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	(-)-GLYCINOL	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
2	2-METHOXY-4-VINYL-PHENOL	Leaf Essent. Oil	--	80600		
1	6,7-DIMETHOXYCOUMARIN	Root	--	--		
19	ACETYL-CHOLINE	Root	--	--		
12	ALLANTOIN	Root	--	--		
101	APIGENIN	Root	--	--		
50	BAICALEIN	Root	--	--		
20	BENZOIC-ACID	Fruit Essent. Oil	--	--		
9	BENZYL-ALCOHOL	Fruit Essent. Oil	--	--		
47	BETA-SITOSTEROL	Root	--	--		
47	BETA-SITOSTEROL	Flower	--	--		
47	BETA-SITOSTEROL	Stem	--	--		
4	BETA-SITOSTEROL-BETA-D-GLUCOSIDE	Root	--	--		
32	BIOCHANIN-A	Flower	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	BIOCHANIN-A	Root	--	--		
28	CALCIUM	Shoot	1600	1700	-0.9516729083531525	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
28	CALCIUM	Root	150	475	-0.7587195817437633	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
1	CAPROIC-ACID	Fruit Essent. Oil	--	--		
20	CHOLINE	Root	--	--		
13	COUMESTROL	Stem	--	76		
13	COUMESTROL	Root	--	--		
32	DAIDZEIN	Root	--	1800	1	
32	DAIDZEIN	Flower	--	--		
32	DAIDZEIN	Rhizome	--	--		
32	DAIDZEIN	Leaf	--	949.8	0.9999999999999997	Kaufman,PB,Duke,JA,Briemann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. Journal of Alternative & Complementary Medicine 3(1):7-12
32	DAIDZEIN	Plant	--	--		
32	DAIDZEIN	Stem	--	510	1	
10	DAIDZIN	Plant	--	--		
10	DAIDZIN	Root	5.3	6520		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	DAIDZIN	Tissue Culture	--	119		
10	DAIDZIN	Stem	--	35		
10	DAIDZIN	Leaf	--	400		
5	DAUCOSTEROL	Root	--	--		
5	DAUCOSTEROL	Flower	--	--		
1	DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Flower	--	--		
6	ETHYL-ACETATE	Fruit Essent. Oil	--	--		
76	EUGENOL	Fruit Essent. Oil	--	--		
15	FIBER	Root	7000	22300	-1.461573051927587	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Shoot	171000	275000	1.0771908220429884	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
15	FIBER	Stem	462000	462000	1.1396711505257664	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
3	FLUORIDE	Root	--	6.6	-0.3778681094927793	
16	FORMONONETIN	Flower	--	--		
16	FORMONONETIN	Rhizome	--	--		
16	FORMONONETIN	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
81	GENISTEIN	Leaf Diffusate	--	3	-0.8278486261082212	
81	GENISTEIN	Leaf	--	316.9	-0.9017833288262167	Kaufman,PB,Duke,JA,Brielmann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. Journal of Alternative & Complementary Medicine 3(1):7-12
81	GENISTEIN	Root	--	--		
81	GENISTEIN	Flower	--	--		
81	GENISTEIN	Stem	--	--		
3	GENISTIN	Root	--	1120		
3	GENISTIN	Flower	--	--		
3	GENISTIN	Stem	--	21		
3	GENISTIN	Leaf	--	20		
3	GENISTIN	Tissue Culture	--	53		
3	GLYCINOL	Leaf Diffusate	--	32		
3	GLYCINOL	Leaf	--	--		
5	GLYCITEIN	Flower	--	88		
6	IRON	Root	6	19	-0.41405018579014385	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	ISOAMYL-ALCOHOL	Fruit Essent. Oil	--	--		
28	ISOLIQUIRITIGENIN	Root	--	--		
5	ISOVALERIC-ACID	Fruit Essent. Oil	--	--		
27	LINOLEIC-ACID	Stem	--	--		
65	MAGNESIUM	Shoot	800	850	-0.9192138294810521	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
2	MALVIN	Flower	--	--		
2	ONONIN	Flower	--	--		
25	P-COUMARIC-ACID	Flower	--	--		
25	P-COUMARIC-ACID	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
13	PALMITIC-ACID	Stem	--	--		
2	PHASEOLLIDIN	Leaf Diffusate	--	2	-1	
4	PHOSPHORUS	Root	180	575	-0.5170673277022045	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
4	PHOSPHORUS	Shoot	470	2440	-0.43012350286689155	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	PHYTOL	Leaf Essent. Oil	--	46300		
14	POTASSIUM	Shoot	16000	36050	0.8561443907517653	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
6	PROPIONIC-ACID	Fruit Essent. Oil	--	--		
49	PUERARIN	Stem	--	208		
49	PUERARIN	Root	3.5	50300		
49	PUERARIN	Plant	--	--		
49	PUERARIN	Tissue Culture	--	86		
176	QUERCETIN	Flower	--	--		
176	QUERCETIN	Root	--	--		
176	QUERCETIN	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
15	RIBOFLAVIN	Shoot	8	8	-1.015123092949927	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
10	ROBININ	Leaf	500	18700		
87	RUTIN	Leaf	--	--		
22	SCOPARONE	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
3	SHEKANIN	Flower	--	--		
5	STARCH	Root	130000	400000	0.35249191462533713	
8	STEARIC-ACID	Stem	--	--		
12	STIGMASTEROL	Stem	--	--		
7	SUCCINIC-ACID	Root	--	--		
1	TECTORIDIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
5	TECTORIGENIN	Flower	--	70		
5	TUBEROSIN	Leaf Diffusate	--	106		
5	TUBEROSIN	Stem	--	--		
2	WIGHTEONE	Leaf Diffusate	--	--		